

We claim:

1. A reamer for preparing a cavity in the intramedullary canal of a long bone, said reamer comprising:

5 a first component for preparation of the cavity in the canal, said first component including a portion thereof for placement at least partially in the cavity of the long bone, said first component defining a rotational centerline thereof; and

10 a second component operably connected to said first component, said second component defining a rotational centerline thereof, the rotational centerline of said first component and the rotational centerline of said second component having a first relationship in which the
15 centerlines are coincident and a second relationship in which the centerlines are skewed with respect to each other.

2. The reamer of claim 1, further comprising a joint
20 operably connected to said first component and to said second component, said joint adapted to provide the first relationship in which the centerlines are coincident and the second relationship in which the centerlines are skewed with respect to each other.

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3. The reamer of claim 1:

wherein said first component includes a portion thereof having a tapered external periphery; and

wherein said second component includes a portion
30 thereof having a drive connection.

4. The reamer of claim 1, further including a securing feature to rigidly attach said first component to said second component.

5 5. The reamer of claim 4, wherein said securing feature comprises at least one of a wedge and a pin.

6. The reamer of claim 1, wherein the long bone is one of a femur and a humerus.

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7. The reamer of claim 2, wherein said first component and said second component are hinged to each other.

8. The reamer of claim 7:

15 further comprising a pin; and

wherein said first component and said second component define openings therein for receiving said pin.

9. A reamer assembly for preparing a cavity in the intramedullary canal of a long bone, said reamer comprising:

20 a first reamer including a first portion for preparation of the cavity in the canal, the first portion defining a rotational centerline thereof, and a second portion operably connected to the first portion, the second portion defining a rotational centerline thereof, the rotational centerline of the first portion and the rotational centerline of the second portion having a first relationship in which the centerlines are coincident and a second relationship in which the centerlines are skewed with respect to each other; and

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a second reamer slidably fittable over at least a portion of said first reamer.

10. The reamer assembly of claim 9, further comprising
5 a joint operably connected to the first portion and to the second portion, said joint adapted to provide the first relationship in which the centerlines are coincident and the second relationship in which the centerlines are skewed with respect to each other.

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11. The reamer assembly of claim 9:

wherein said first portion includes a section thereof having a tapered external periphery; and

15 wherein said second portion includes a section thereof having a drive connection.

12. The reamer assembly of claim 9, further including a securing feature to rigidly attach the first portion to the second portion.

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13. The reamer assembly of claim 12, wherein said securing feature comprises one of a wedge and a pin.

14. The reamer assembly of claim 9, wherein the long
25 bone is one of a femur and a humerus.

15. The reamer assembly of claim 9, wherein said first portion and said second portion are hinged to each other.

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16. The reamer of claim 15:
further comprising a pin; and

wherein said first portion and said second portion define openings therein for receiving said pin.

17. A kit for preparing a cavity in the intramedullary
5 canal of a long bone for use in performing joint arthroplasty, said kit comprising:

a first reamer including a first portion for preparation of the cavity in the canal, the first portion defining a rotational centerline thereof, and a second
10 portion operably connected to the first portion, the second portion defining a rotational centerline thereof, the rotational centerline of the first portion and the rotational centerline of the second portion having a first relationship in which the centerlines are coincident and a
15 second relationship in which the centerlines are skewed with respect to each other; and

a trial for assisting in performing a trial reduction, said trial operably associated with said first reamer.

20 18. The kit of claim 17, further comprising a second reamer slidably fittable over at least a section of the second portion of said first reamer;

25 19. The kit of claim 17, further comprising a joint operably connected to the first portion and to the second portion, said joint adapted to provide the first relationship in which the centerlines are coincident and the second relationship in which the centerlines are skewed with respect to each other.

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20. The kit of claim 19, further including a securing feature to rigidly attach the first portion to the second portion.

5 21. The kit of claim 20, wherein said securing feature comprises at least one of a wedge and a pin.

22. The kit of claim 17, wherein the long bone is one of a femur and a humerus.

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23. The kit of claim 17, wherein the first portion and the second portion are hinged to each other.

24. The kit of claim 23:
15 further comprising a pin; and
 wherein said first component and said second component define openings therein for receiving said pin.

25. A method for providing joint arthroplasty
20 comprising:

 opening a medullary canal of the long bone;
 providing a reamer including a first member having a first member centerline and a second member having a second member centerline, the first member centerline being
25 movable with respect to the second member centerline, the first member including a surface for the removal of bone;
 positioning the reamer in the canal;
 reaming a cavity in the canal with the reamer with the first member centerline being coincident with the second
30 member centerline; and

adjusting the reamer such that the first member centerline is skewed with respect to the second member centerline.

5 26. The method of claim 25 further comprising the steps of:

providing a trial;
attaching the trial to the second member; and
performing a trial reduction.

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27. The method of claim 25, further comprising the steps of:

providing a second reamer for cooperation with the second member, the second reamer including a surface for
15 the removal of bone; and
removing bone with the second reamer.

28. The method of claim 25, further comprising the steps of:

20 providing a joint prosthesis; and
implanting the joint prosthesis in the cavity

29. The method of claim 26:

wherein the reamer step comprises providing a reamer
25 with the first member having a tapered shaft and with the second member having a tapered shaft fitted to the tapered shaft of the first member; and

wherein the providing the trial step comprises providing a trial having tapered shaft fitted to the
30 tapered shaft of the first member.